

CLAIMS

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1. An apparatus for authenticating a user's identity, comprising:
    - a. a data collector to continuously receive and collect a stream of biometric data;  
and
    - b. a data matcher to continuously process the biometric data from the data collector to authenticate the user's identity.
  2. The apparatus according to claim 1, wherein the data collector further comprising:
    - a. a plurality of sensors to detect the stream of biometric data; and
    - b. a signal converter to convert the biometric data from the sensors into storable data and send the storable data to the data matcher.
  3. The apparatus according to claim 1, wherein the data matcher further comprises:
    - a. a database to store the storable data from the signal converter and to store an identity reference for the user;
    - b. a data compiler, coupled to the database, to establish and update the identity reference in the database; and
    - c. a data analyzer, coupled to the database, to receive user information and to authenticate the user's identity by comparing the user information and the identity reference and for presenting a comparison result.
  4. The apparatus according to claim 3, wherein the data compiler establishes the identity reference by integrating samples of the storable data over time.
  5. The apparatus according to claim 3, wherein the data analyzer further receives input data from the user and embeds the reference identity in the input data.

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- c. receiving user information;
- ~~11~~ d. authenticating the user's identity by comparing the user information and the identity reference; and
- e. presenting a comparison result.

13. The method according to claim 12, wherein 12(b) further comprises integrating samples of the storable data over time.

14. The method according to claim 12, wherein 12(d) further comprises:

- a. receiving input data from the user; and
- b. embedding the reference identity in the input data.

~~11~~ 15. A machine readable medium having embodied thereon instructions, which when executed by an electronic system, causing the electronic system to:

- a. continuously receive and collect a stream of biometric data; and
- b. continuously process the biometric data to authenticate the user's identity.

16. The machine readable medium according to claim 15, wherein said instructions for 15(a) further comprises:

- a. detecting the stream of biometric data by a plurality of sensors;
- b. converting the biometric data from the sensors into storable data; and
- c. sending the storable data to a data matcher.

17. The machine readable medium according to claim 15, wherein said instructions for 15(b) further comprises:

- a. storing the storable data and an identity reference for the user in a database;
- b. establishing and updating the identity reference in the database;
- c. receiving user information;

- d. authenticating the user's identity by comparing the user information and the identity reference; and
- e. presenting a comparison result.

18. The machine readable medium according to claim 17, wherein said instructions for 17(b) further comprises integrating samples of the storable data over time.

19. The machine readable medium according to claim 17, wherein said instructions for 17(d) further comprises:

- a. receiving input data from the user; and
- b. embedding the reference identity in the input data.

20. The machine readable medium according to claim 15, wherein the electronic system is coupled to a network.